

Abstract

A technique for verifying an interconnect fabric design for interconnecting a plurality of network nodes. A design for the interconnect fabric specifies an arrangement of elements of the fabric and flow requirements among the network nodes. The invention programmatically verifies that the flow requirements are satisfied by the design and that the design does not violate constraints on the elements, such as available bandwidth or number of ports. This may also include determining whether the network can continue to satisfy the flow requirements in the event of one or more failures of elements of the interconnect fabric.